

## **RAW SEQUENCE LISTING**

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Information Center (STIC) no errors detected.**

Application Serial Number: 10/618,283

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## RAW SEQUENCE LISTING

DATE: 03/08/2005

PATENT APPLICATION: US/10/618,283

TIME: 10:20:11

Input Set : N:\Crf3\RULE60\10618283.raw.txt

Output Set: N:\CRF4\03082005\J618283.raw

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1 <110> APPLICANT: Boone, Thomas C.
2      Cheung, Ellen N.
3      Hershenson, Susan I.
4      Young, John D.
5 <120> TITLE OF INVENTION: ANALOGS OF CATIONIC PROTEINS
6 <130> FILE REFERENCE: A-411A US Revised073100
7 <140> CURRENT APPLICATION NUMBER: US/10/618,283
8 <141> CURRENT FILING DATE: 2003-07-11
9 <150> PRIOR APPLICATION NUMBER: US/09/742,600
10 <151> PRIOR FILING DATE: 2000-12-19
11 <150> PRIOR APPLICATION NUMBER: 09/214,214
12 <151> PRIOR FILING DATE: 1998-12-23
13 <150> PRIOR APPLICATION NUMBER: US 08/684,353
14 <151> PRIOR FILING DATE: 1996-07-19
15 <160> NUMBER OF SEQ ID NOS: 12
16 <170> SOFTWARE: PatentIn Ver. 2.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 120
20 <212> TYPE: PRT
21 <213> ORGANISM: Human
22 <400> SEQUENCE: 1
23      Met Tyr Ala Glu His Lys Ser His Arg Gly Glu Tyr Ser Val Cys Asp
24          1          5          10          15
25      Ser Glu Ser Leu Trp Val Thr Asp Lys Ser Ser Ala Ile Asp Ile Arg
26          20          25          30
27      Gly His Gln Val Thr Val Leu Gly Glu Ile Lys Thr Gly Asn Ser Pro
28          35          40          45
29      Val Lys Gln Tyr Phe Tyr Glu Thr Arg Cys Lys Glu Ala Arg Pro Val
30          50          55          60
31      Lys Asn Gly Cys Arg Gly Ile Asp Asp Lys His Trp Asn Ser Gln Cys
32          65          70          75          80
33      Lys Thr Ser Gln Thr Tyr Val Arg Ala Leu Thr Ser Glu Asn Asn Lys
34          85          90          95
35      Leu Val Gly Trp Arg Trp Ile Arg Ile Asp Thr Ser Cys Val Cys Ala
36          100         105         110
37      Leu Ser Arg Lys Ile Gly Arg Thr
38          115         120
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 360
42 <212> TYPE: DNA
43 <213> ORGANISM: Human
44 <400> SEQUENCE: 2
45      atgtacgctg aacacaaatc tcaccgtggt gaatactctg tttgcgactc tgaatctctg 60

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46      tggggtaccg acaaatcttc tgctatcgac atccgtgggc accaggttac cggtctgggt 120
47      gaaatcaaaa ccggttaactc tccgggttaa cagtacttct acgaaaccgc ttgcaaagaa 180
48      gctgcaccgg ttgacaacgg ttgccgtggc atcgacgaca aacactggaa ctctcagtc 240
49      aaaacctctc agacctacgt tcgtgctctg acctctgaaa acaacaagct tggtgggtgg 300
50      cggtggattc gtatcgacac ctcttgcggt tgcgctctgt ctcgtaaaat cggtcgtacc 360

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52 &lt;210&gt; SEQ ID NO: 3

53 &lt;211&gt; LENGTH: 120

54 &lt;212&gt; TYPE: PRT

55 &lt;213&gt; ORGANISM: Human

56 &lt;400&gt; SEQUENCE: 3

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57      Met Tyr Ala Glu His Lys Ser His Arg Gly Glu Tyr Ser Val Cys Asp
58          1             5             10             15
59      Ser Glu Ser Leu Trp Val Thr Asp Lys Ser Ser Ala Ile Asp Ile Arg
60          20             25             30
61      Gly His Gln Val Thr Val Leu Gly Glu Ile Lys Thr Gly Asn Ser Pro
62          35             40             45
63      Val Lys Gln Tyr Phe Tyr Glu Thr Arg Cys Lys Glu Ala Ala Pro Val
64          50             55             60
65      Asp Asn Gly Cys Arg Gly Ile Asp Asp Lys His Trp Asn Ser Gln Cys
66          65             70             75             80
67      Lys Thr Ser Gln Thr Tyr Val Arg Ala Leu Thr Ser Glu Asn Asn Lys
68          85             90             95
69      Leu Val Gly Trp Arg Trp Ile Arg Ile Asp Thr Ser Cys Val Cys Ala
70          100            105            110
71      Leu Ser Arg Lys Ile Gly Arg Thr
72          115            120

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74 &lt;210&gt; SEQ ID NO: 4

75 &lt;211&gt; LENGTH: 354

76 &lt;212&gt; TYPE: DNA

77 &lt;213&gt; ORGANISM: Human

78 &lt;400&gt; SEQUENCE: 4

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79      atgtacgctg aacacaaatc tcaccgtggc gaatactctg tttgcgactc tgaatctctg 60
80      tggggtaccg acaaatcttc tgctatcgac atccgtgggc accaggttac cggtctgggt 120
81      gaaatcaaaa ccggttaactc tccgggttaa cagtacttct acgaaaccgc ttgcaaagaa 180
82      gctgcaccgg ttgacaacgg ttgccgtggc atcgacgaca aacactggaa ctctcagtc 240
83      aaaacctctc agacctacgt tcgtgctctg acctctgaaa acaacaagct tggtgggtgg 300
84      cggtggattc gtatcgacac ctcttgcggt tgcgctctgt ctcgtaaaat cgggt      354

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86 &lt;210&gt; SEQ ID NO: 5

87 &lt;211&gt; LENGTH: 118

88 &lt;212&gt; TYPE: PRT

89 &lt;213&gt; ORGANISM: Human

90 &lt;400&gt; SEQUENCE: 5

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91      Met Tyr Ala Glu His Lys Ser His Arg Gly Glu Tyr Ser Val Cys Asp
92          1             5             10             15
93      Ser Glu Ser Leu Trp Val Thr Asp Lys Ser Ser Ala Ile Asp Ile Arg
94          20             25             30
95      Gly His Gln Val Thr Val Leu Gly Glu Ile Lys Thr Gly Asn Ser Pro
96          35             40             45
97      Val Lys Gln Tyr Phe Tyr Glu Thr Arg Cys Lys Glu Ala Ala Pro Val

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98          50          55          60
99      Asp Asn Gly Cys Arg Gly Ile Asp Asp Lys His Trp Asn Ser Gln Cys
100         65          70          75          80
101      Lys Thr Ser Gln Thr Tyr Val Arg Ala Leu Thr Ser Glu Asn Asn Lys
102          85          90          95
103      Leu Val Gly Trp Arg Trp Ile Arg Ile Asp Thr Ser Cys Val Cys Ala
104          100          105          110
105      Leu Ser Arg Lys Ile Gly
106          115
108 <210> SEQ ID NO: 6
109 <211> LENGTH: 119
110 <212> TYPE: PRT
111 <213> ORGANISM: Human
112 <400> SEQUENCE: 6
113      Tyr Ala Glu His Lys Ser His Arg Gly Glu Tyr Ser Val Cys Asp Ser
114          1          5          10          15
115      Glu Ser Leu Trp Val Thr Asp Lys Ser Ser Ala Ile Asp Ile Arg Gly
116          20          25          30
117      His Gln Val Thr Val Leu Gly Glu Ile Lys Thr Gly Asn Ser Pro Val
118          35          40          45
119      Lys Gln Tyr Phe Tyr Glu Thr Arg Cys Lys Glu Ala Ala Pro Val Asp
120          50          55          60
121      Asn Gly Cys Arg Gly Ile Asp Asp Lys His Trp Asn Ser Gln Cys Lys
122          65          70          75          80
123      Thr Ser Gln Thr Tyr Val Arg Ala Leu Thr Ser Glu Asn Asn Lys Leu
124          85          90          95
125      Val Gly Trp Arg Trp Ile Arg Ile Asp Thr Ser Cys Val Cys Ala Leu
126          100          105          110
127      Ser Arg Lys Ile Gly Arg Thr
128          115
130 <210> SEQ ID NO: 7
131 <211> LENGTH: 117
132 <212> TYPE: PRT
133 <213> ORGANISM: Human
134 <400> SEQUENCE: 7
135      Tyr Ala Glu His Lys Ser His Arg Gly Glu Tyr Ser Val Cys Asp Ser
136          1          5          10          15
137      Glu Ser Leu Trp Val Thr Asp Lys Ser Ser Ala Ile Asp Ile Arg Gly
138          20          25          30
139      His Gln Val Thr Val Leu Gly Glu Ile Lys Thr Gly Asn Ser Pro Val
140          35          40          45
141      Lys Gln Tyr Phe Tyr Glu Thr Arg Cys Lys Glu Ala Ala Pro Val Asp
142          50          55          60
143      Asn Gly Cys Arg Gly Ile Asp Asp Lys His Trp Asn Ser Gln Cys Lys
144          65          70          75          80
145      Thr Ser Gln Thr Tyr Val Arg Ala Leu Thr Ser Glu Asn Asn Lys Leu
146          85          90          95
147      Val Gly Trp Arg Trp Ile Arg Ile Asp Thr Ser Cys Val Cys Ala Leu
148          100          105          110

```

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149      Ser Arg Lys Ile Gly
150              115
152 <210> SEQ ID NO: 8
153 <211> LENGTH: 120
154 <212> TYPE: PRT
155 <213> ORGANISM: Human
156 <400> SEQUENCE: 8
157      Met His Ser Asp Pro Ala Arg Arg Gly Glu Leu Ser Val Cys Asp Ser
158              1          5          10          15
159      Ile Ser Glu Trp Val Thr Ala Ala Asp Lys Lys Thr Ala Val Asp Met
160              20          25          30
161      Ser Gly Gly Thr Val Thr Val Leu Glu Lys Val Pro Val Ser Lys Gly
162              35          40          45
163      Gln Leu Lys Gln Tyr Phe Tyr Glu Thr Lys Cys Asn Pro Met Gly Tyr
164              50          55          60
165      Thr Lys Glu Gly Cys Arg Gly Ile Asp Lys Arg His Trp Asn Ser Gln
166              65          70          75          80
167      Cys Arg Thr Thr Gln Ser Tyr Val Arg Ala Leu Thr Met Asp Ser Lys
168              85          90          95
169      Lys Arg Ile Gly Trp Arg Phe Ile Arg Ile Asp Thr Ser Cys Val Cys
170              100         105         110
171      Thr Leu Thr Ile Lys Arg Gly Arg
172              115         120
174 <210> SEQ ID NO: 9
175 <211> LENGTH: 120
176 <212> TYPE: PRT
177 <213> ORGANISM: Human
178 <400> SEQUENCE: 9
179      Met His Ser Asp Pro Ala Arg Arg Gly Glu Leu Ser Val Cys Asp Ser
180              1          5          10          15
181      Ile Ser Glu Trp Val Thr Ala Ala Asp Lys Lys Thr Ala Val Asp Met
182              20          25          30
183      Ser Gly Gly Thr Val Thr Val Leu Glu Lys Val Pro Val Ser Lys Gly
184              35          40          45
185      Gln Leu Lys Gln Tyr Phe Tyr Glu Thr Lys Cys Asn Pro Met Gly Tyr
186              50          55          60
187      Thr Asp Glu Gly Cys Arg Gly Ile Asp Asp Arg His Trp Asn Ser Gln
188              65          70          75          80
189      Cys Arg Thr Thr Gln Ser Tyr Val Arg Ala Leu Thr Met Asp Ser Ala
190              85          90          95
191      Lys Ala Ile Gly Trp Arg Phe Ile Arg Ile Asp Thr Ser Cys Val Cys
192              100         105         110
193      Thr Leu Thr Ile Lys Arg Gly Arg
194              115         120
196 <210> SEQ ID NO: 10
197 <211> LENGTH: 120
198 <212> TYPE: PRT
199 <213> ORGANISM: Human
200 <400> SEQUENCE: 10

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Input Set : N:\Crf3\RULE60\10618283.raw.txt

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201      Met His Ser Asp Pro Ala Arg Arg Gly Glu Leu Ser Val Cys Asp Ser
202          1              5              10              15
203      Ile Ser Glu Trp Val Thr Ala Ala Asp Lys Lys Thr Ala Val Asp Met
204          20              25              30
205      Ser Gly Gly Thr Val Thr Val Leu Glu Lys Val Pro Val Ser Lys Gly
206          35              40              45
207      Gln Leu Lys Gln Tyr Phe Tyr Glu Thr Lys Cys Asn Glu Met Gly Tyr
208          50              55              60
209      Thr Asp Glu Gly Cys Arg Gly Ile Asp Asp Arg His Trp Asn Ser Gln
210          65              70              75              80
211      Cys Arg Thr Thr Gln Ser Tyr Val Arg Ala Leu Thr Met Asp Ser Ala
212          85              90              95
213      Lys Arg Ile Gly Trp Arg Phe Ile Arg Ile Asp Thr Ser Cys Val Cys
214          100             105             110
215      Thr Leu Thr Ile Lys Arg Gly Arg
216          115             120
218 <210> SEQ ID NO: 11
219 <211> LENGTH: 663
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Description of Artificial Sequence: Hybrid of
224      bacterial (E. coli) and human (Homo sapiens)
225      sequence.
226 <400> SEQUENCE: 11
227      cgtaacgtat gcatggtctc cccatgcgag agtagggaac tgccaggcat caataaaacg 60
228      aaaggctcag tcgaaagact gggcctttcg ttttatctgt tgtttgctcg tgacgctctc 120
229      ctgagtagga caaatccgcc gggagcggat ttgaacgttg cgaagcaacg gccggagggg 180
230      ggcggggcagg acgcccgcc taaactgcc ggcatacaat taagcagaag ccatacctgac 240
231      ggatggcctt tttgcgtttc tacaaactct tttgtttatt tttctaaata cattcaaata 300
232      tggacgtctc ataattttta aaaaattcat ttgacaaatg ctaaaattct tgattaatat 360
233      tctcaattgt gagegctcac aatttatcga tttgattcta gatttgagtt ttaactttta 420
234      gaaggaggaa taacatatgg ttaacgcgtt ggaattcgag ctactagtgt tcgacctgca 480
235      gggtagcatg gaagcttact cgaggatccg cggaaagaag aagaagaaga agaaagcccg 540
236      aaaggaagct gagttggctg ctgccaccgc tgagcaataa ctagcataac cccttggggc 600
237      ctctaaacgg gtcttgaggg gttttttgct gaaaggagga accgctcttc acgctcttca 660
238      cgc 663
240 <210> SEQ ID NO: 12
241 <211> LENGTH: 665
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Description of Artificial Sequence: Hybrid of
246      bacterial (E. coli) and human (Homo sapiens)
247      sequence.
248 <400> SEQUENCE: 12
249      gtgaagagcg tgaagagcgg ttctctcttt cagcaaaaaa cccctcaaga cccgtttaga 60
250      ggccccaaagg ggttatgcta gttattgctc agcgggtggc gcagccaact cagcttcctt 120
251      tcgggctttc ttctttctct tcttctttcc gcggatcctc gagtaagctt ccatggtacc 180

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/618,283

DATE: 03/08/2005

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